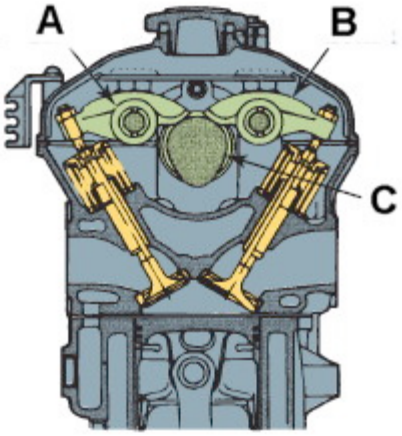
Automotive Engine Performance, 5th Edition
Quiz 3B

Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) Which of the following is the most correct statement about the direction of engine rotation? 1) _____
A) Most engines rotate clockwise as viewed from the front of the engine.
B) Most engines rotate clockwise as viewed from the principal end of the engine.
C) Most engines rotate counter clockwise as viewed from the front of the engine.
D) Most engines rotate counter clockwise as viewed from the non principal end of the engine.

2) In this drawing, which item is the camshaft? 2) _____



A) A
B) B
C) C
D) None of these

3) How many degrees of CRANKSHAFT rotation are required for a piston to travel from TDC to BDC and return to TDC? 3) _____
A) 180
B) 360
C) 90
D) 720

4) Technician A says that the crankshaft determines the stroke of an engine. Technician B says that the length of the connecting rod determines the stroke of an engine. Which technician is correct? 4) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

5) Which component is NOT needed in a typical overhead cam engine? 5) _____
A) Camshaft
B) Valve spring
C) Rocker arm
D) Push rod

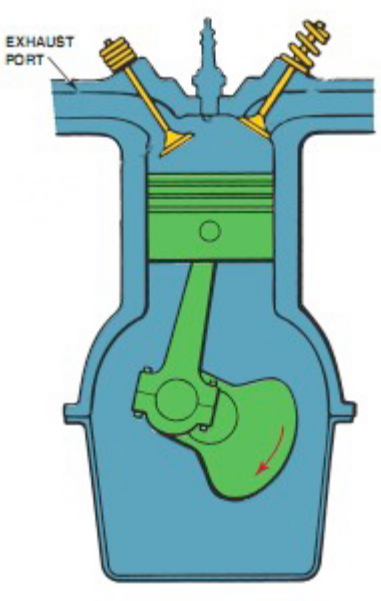
6) The ratio of the volume of a cylinder with the piston at BDC to the volume of the cylinder with the piston at TDC is known as _____. 6) _____
A) Compression ratio
B) Displacement
C) Volume ratio
D) None of these

7) The metric unit for torque used by most original equipment manufacturers (OEM) is which of these? 7) _____
A) Foot–pound
B) Pound–foot
C) Newton–meter
D) Kilogram–meter

8) One cylinder of an automotive four–stroke cycle engine completes a cycle every _____. 8) _____
A) 90 degree
B) 180 degree
C) 360 degree
D) 720 degree

9) All overhead valve engines _____. 9) _____
A) Use an overhead camshaft
B) Have the overhead valves in the head
C) Operate by the rotary cycle
D) Use the camshaft to close the valves

10) Which part of the four stroke cycle is illustrated in this drawing? 10) _____



A) Intake
B) Exhaust
C) Compression
D) Power

Answer Key
Testname: ENGINE PERF_3B

1) A
Page Ref: 62
2) C
Page Ref: 61
3) B
Page Ref: 59
4) A
Page Ref: 66
5) D
Page Ref: 61
6) A
Page Ref: 65
7) C
Page Ref: 66
8) D
Page Ref: 59
9) B
Page Ref: 60
10) B
Page Ref: 58